PAT-NO:

المراد المراجعة الموادية

JP409250087A

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TITLE:

SIZING AGENT FOR CARBON FIBER STRAND, SIZE-

TREATED

CARBON FIBER STRAND AND PREPREG REINFORCED BY

THE CARBON

FIBER AS REINFORCING FIBER

PUBN-DATE:

September 22, 1997

INVENTOR-INFORMATION:

NAME

KINOSHITA, EIJI NISHIMURA, ISAO FUKUMIZU, HIDEAKI

ASSIGNEE-INFORMATION:

NAME

COUNTRY

TOHO RAYON CO LTD

N/A

APPL-NO:

JP08082115

APPL-DATE: March 11, 1996

INT-CL (IPC): D06M015/55, C08J005/06, C08J005/24, D06M015/564

ABSTRACT:

PROBLEM TO BE SOLVED: To obtain a sizing agent for carbon fiber

capable of satisfying fiber opening and fretting resistant properties,

excellent in resin impregnation of a prepreq and satisfying complex material

characteristics, size-treated carbon fiber and a pregreg reinforced by the

size-treated carbon fiber as a reinforcing fiber.

SOLUTION: This sizing agent for carbon fiber strands essentially contains

the following components and the sum total of the components A and B is

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≥50wt.% and ≤85wt.%; the component (A): 20-50wt.% of a bisphenol A type

epoxy resin which is a liquid at ordinary temperatures the component (B):

20-50wt.% of a **bisphenol** A type **epoxy** resin which is a solid at ordinary

temperatures, the component (C): 10-30wt.% of a water-soluble polyurethane

resin having 90-160°C film flowing temperature and the component (D):

5-20wt.% stearic acid ester. A prepreg is produced by using the carbon fiber

strands which are size-treated with the **sizing agent** as a reinforcing fiber.

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